El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	**Information Technology Systems**
COURSE RUBRIC AND NUMBER	**ITCC 2341**
COURSE TITLE	**CCNA Security**
COURSE CREDIT HOURS	__3__ __3__ : __1__
	Credits Lec Lab

I.   Catalog Description

Covers overall security processes with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; and secure router design, installation, configuration, and maintenance; AAA and VPN implementation using routers and firewalls. Students must have successfully completed the training in the Cisco Networking Academy or have a CCNA certification. **Prerequisite: ITCC 2313. (3:1). Lab fee.**

II.   Course Objectives

Upon satisfactory completion of this course, the student will be able to:

A.   Explain network threats.
B.   Discuss mitigation techniques.
C.   Discuss the basics of securing a network.
D.   Explain how to secure administrative access on Cisco router using AAA.
E.   Explain how to implement firewall technologies to secure the network perimeter.
F.   Demonstrate how to configure an Intrusion Prevention System (IPS) to mitigate attacks on the network.
G.   Discuss how to implement endpoint and Layer 2 security features.
H.   Discuss how to implement secure virtual private networks.

III.   THECB Learning Outcomes (WECM)

1.   Explain network threats, mitigation techniques, and the basics of securing a network.
2.   Secure administrative access on Cisco routers using AAA.
3.   Implement firewall technologies to secure the network perimeter.
4.   Configure IPS to mitigate attacks on the network.
5.   Implement endpoint and Layer 2 security features.
6.   Implement secure virtual private networks.

IV.   Evaluation

- Ten exams will contribute 15% to the final grade.

- Lab assignments will contribute 20 % to the final grade.

- Skills Based Final will contribute 35% to the final grade

- A comprehensive Final Exam will contribute 30% to the final grade.

The final grade is based on a percentage of total points earned:

Percentage	Letter Grade
90 – 100	A
80 – 89.99	B
70 – 79.99	C
60 – 69.99	D
0 – 59.99	F

V.   Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI.   6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII.   Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.